Project Title: Analytics For Hospital's Health-Care Data   Project Design Phase-I - Solution Fit TemplateTeam ID: PNT2022TMID13202

1. CUSTOMER SEGMENT(S)

Define CS, fit

- **Patients**
- **Hospital Management**

6. CUSTOMER CONSTRAINTS

Customers require more accurate andearly predictions of Length of Stay (LOS).

5. AVAILABLE SOLUTIONS

There are few Length of Stay prediction model available whichlacks in predicting some exceptional case where the length of stay may extend.

Explore AS,

2. JOBS-TO-BE-DONE / PROBLEMS

Focus on J&P, tap

Length of stay prediction may varybased on the patient's stage/severity of disease. Patientmay get dissatisfied if there is no bed availability.

9. PROBLEM ROOT CAUSE

Unpredictable length of stay and improper medicalrecords are the root causeof the problem.

7. BEHAVIOUR

Developing a model which predicts the length of stay of unexceptional cases with better accuracy.

Focus on J&P, tap

Identify strong TR & EM

3. TRIGGERS

To accurately predict thelength of stay.

4. EMOTIONS: BEFORE / AFTER

Before : Pateints often get frustratedand depressed. After: They feel better and get new beginning.

10. YOUR SOLUTION

Our solution includes using algorithms like Fuzzy Logic, Tree Bagger, Random Forest, and Decision Trees to predict the length of stay more accurately. Gives frequent update about the bed availability.

8. CHANNELS of BEHAVIOUR

Users will check for bed availability.

Identify strong TR & EM